

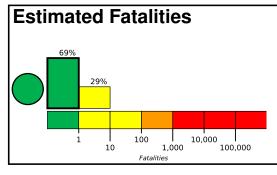




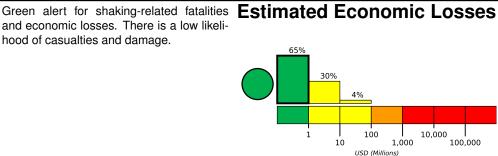
PAGER Version 6

Created: 6 hours, 2 minutes after earthquake

M 4.3, 12km WSW of Byron, CAOrigin Time: 2019-07-16 20:11:01 UTC (Tue 13:11:01 local)
Location: 37.8187° N 121.7568° W Depth: 12.4 km



and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

							<u> </u>			
ESTIMATED POPULATION EXPOSURE (k=x1000)		5,691k*	4,759k	192k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

122.2 121 W acramento lk Grove Concor Stocktor Morgan Hill

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73225421#pager

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	252	6.6	VI(8k)	2
1980-01-24	12	5.8	VII(35k)	1
1989-10-18	78	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population IV Livermore 81k IV Blackhawk 9k IV Byron 1k Ш Diablo 1k Ш Dublin 46k Ш Mountain House 10k Ш Stockton 292k Ш Oakland 391k Ш San Jose 946k San Francisco 805k Sacramento 466k

bold cities appear on map.

(k = x1000)

Event ID: nc73225421